

AG 40

AUTOGLAS EURO DESIGN CLEARCOAT

Technical Data Sheet

Technical Hotline 800.735.0303

<u>PRODUCT NUMBER</u>	<u>DESCRIPTION</u>
AG 40	EURO DESIGN CLEARCOAT

<u>HARDENERS</u>	<u>DESCRIPTION</u>
AH 401	EURO DESIGN FAST HARDENER
AH 402	EURO DESIGN MEDIUM HARDENER
AH 403	EURO DESIGN SLOW HARDENER
AH 404	EURO DESIGN VERY SLOW HARDENER

<u>REDUCERS</u>	<u>DESCRIPTION</u>
NOT RECOMMENDED	NOT RECOMMENDED

**Tech Tip:* The use of urethane grade solvents will increase the VOC of AG 40 above the 4.2 lbs/gl compliance regulation, and may contribute to solvent pop, delamination or other related problems.

DESCRIPTION

AG 40 is a 2:1 European style designed clear formulated for applications requiring a eurostyle premium appearance. This high solid clear with excellent flow and leveling will dry to a glass like finish in air dry or forced dry applications. It has excellent weathering capability.

COMPATIBLE BASECOATS

- MPB
- MSB
- MAU*
- MCU*
- DBU®
- DBC®
- DAU®*
- Omni®
- CHROMAPREMIER®
- CHROMABASE®
- Nason®
- Dimension®
- Ultra 7000®
- GLASURIT 55®
- LIMCO SUPREME®
- Autobase®

**Tech Tip:* For clearcoat integration technique refer to specific manufacturers single stage finish technical data sheet.

SURFACE PREPARATION



1. Allow the final coat of basecoat to dry 15-30 minutes prior to applying clearcoat.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply AG 40 Clearcoat.

**Tech Tip:* Extend basecoat dry time to 30 minutes when applying several base color coats, tri coat colors, multiple graphic overlays, or in cooler shop conditions.

MIXING RATIO



AG 40 : AH 401/402/403/404
2 Parts : 1 Part

FLATTENING ADDITIVE MIXING RATIO

Clearcoat	Gloss	Ounces of MX-85	MR-0800 Series Reducer	Ounces of Hardener
AG 40 32 Oz. (1 Qt.)	<i>Flat</i>	25	0	16
	<i>Eggshell</i>	20	0	16
	<i>Semi-Gloss</i>	15	0	16

***Tech Tip:** Air pressure and film build per coat will affect gloss level of substrate. Make sure to spray a test panel before application.

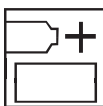
POT LIFE



<u>Hardener</u>	<u>Time</u>	<u>Temp</u>
AH 402/403/404	2-3 Hours	77° F
AH-401	1-3 Hours	77° F

***Tech Tip:** Pot life will shorten as temperatures increase. Matrix System products are not recommended for use in temperatures below 65° F.

ADDITIVES



ACCELERATOR

Use up to 1/2 fluid ounce of MX-081 or MX-084 Accelerator per sprayable quart. The addition of MX-081 or MX-084 will reduce cure times by 50%. The use of MX-081 will reduce pot life by 50%. The use of MX-081 will not increase VOC in areas where acetone is exempt. **DO NOT USE ACCELERATOR WITH AH-401.**



FISH EYE

The use of fish eye eliminator is strongly discouraged. If a fish eye additive is needed, use MX-01 urethane fish eye eliminator, mix 1/2 ounce per sprayable quart. Use no more than necessary as it will directly affect the flow out of AG 40.

APPLICATION



Apply 2-3 full wet coats at 35-45 psi or (6-10 psi when using HVLP at the aircap), allowing a 10-15 minute flash time between coats.



<u>GUN TYPE</u>	<u>HVLP</u>	<u>Conventional</u>
<u>SIZE</u>	1.3 - 1.7 mm	1.3 - 1.7 mm
<u>PSI</u>	6 - 10 at Aircap	35 - 45 at Gun

APPLICATION CONT'D

PAINTING FLEXIBLE PARTS

A flexible additive may be needed when painting certain flexible parts.

AG 40 : AH 401/402/403/404 : MX-841
2 Parts : 2 Parts : 1 Part

***Tech Tip:** Full panel only when part is off the vehicle, it is not necessary to add MX-841 when the part is mounted on the vehicle. Reference the MX-841 Technical data Sheet for additional information.



BLENDING

Dry edges can be blended in by reducing clearcoat 100%-150% and lightly misting the area to be blended out.

***Tech Tip:** When blending clearcoat, use MR-Reducer one temperature range slower than was used during baescoat application (i.e. MR-0870 used during basecoat application, switch to MR-0885 to blend clearcoat edge in).

DRY & FLASH TIME INFORMATION



DRY TIMES AT 77° F

FLASH TIME 10-15 MINUTES
TO SAND 16-24 HOURS
TO DELIVER 16-24 HOURS

DRY TIMES WITH AH-401

10 MINUTES
8-10 HOURS
8-10 HOURS



FORCE DRYING AT 140° F

PURGE TIME 10 MINUTES
BAKE TIME AT 140°F 40 MINUTES

REPAIRING & RECOATING



AG 40 may be recoated after a 16-24 Hour dry at 77°F, or after a minimum 1 hour cool down after force drying at 140°F for 40 minutes.

BUFFING



Allow 16 hours before sanding or buffing AG 40. Temperature, humidity and film thickness will affect buff times. When force drying, allow 1 hour cool down before buffing or polishing AG 40.

EQUIPMENT CLEANUP



Clean equipment immediately after use with MX-110 Gun Wash or a high quality lacquer thinner.

TECHNICAL DATA

Clear:	2 parts AG-40
Hardeners:	1 part AH-401/402/403 or AH-404
Viscosity (RTS):	27 - 30 seconds #2 Zahn
Weight Solids (RTS):	48 - 50%
Film Build:	1.0 - 1.4 mils per full wet coat
Coverage:	685 sq. ft. per gallon @ 1 dry mil

V.O.C. as Delivered:	Regulatory VOC in LBS./GAL.	Regulatory VOC in G./L.	Material VOC in LBS./GAL.	Material VOC in G./L.
AG 40	4.4	524	4.4	524
AH 401	3.9	470	3.9	470
AH 402	3.9	470	3.9	470
AH 403	3.7	444	3.7	444
AH 404	3.7	444	3.7	444
V.O.C. (RTS):				
AG 40/AH 401	4.2	506	4.2	506
AG 40/AH 402	4.2	506	4.2	506
AG 40/AH 403	4.2	498	4.2	498
AG 40/AH 404	4.2	498	4.2	498

Disposal/Safety:	see MSDS for this product
Humidity Resistance:	Excellent
Salt Spray Resistance	Excellent
MSDS Reference #	MX-SD2

FOR INDUSTRY USE ONLY Read MSDS Before Use

The contents of the package must be blended with other components before the product can be used. Any mixture of components will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions.

The material is designed for application only by professionally trained personnel using proper equipment under controlled conditions, and is not intended for sale to the general public.

SEE MSDS AND PRODUCT LABELS FOR ADDITIONAL SAFETY INFORMATION.

NOTE: Matrix Systems products are not recommended for use in temperatures below 65°F. Use below these temperatures will effect dry times and performance.

Put it to the test!
www.matrixsystem.com